

1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

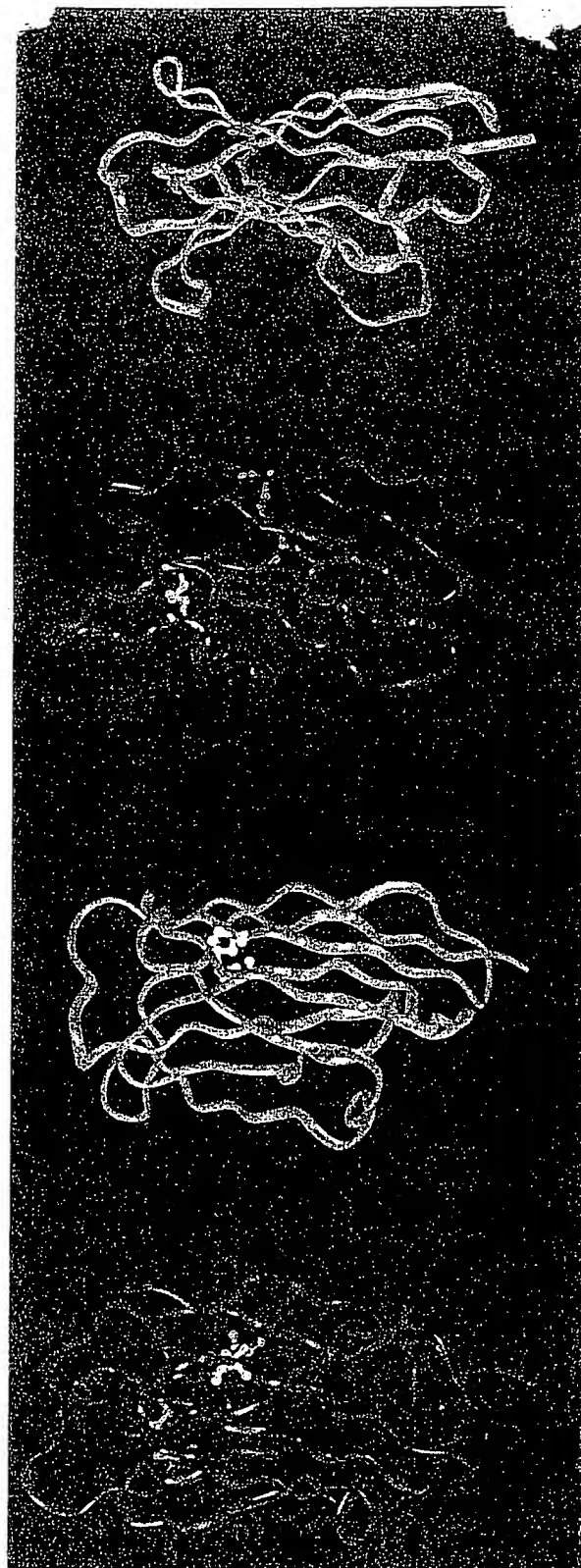


FIGURE 1

and the other two are in the same position as the first two.

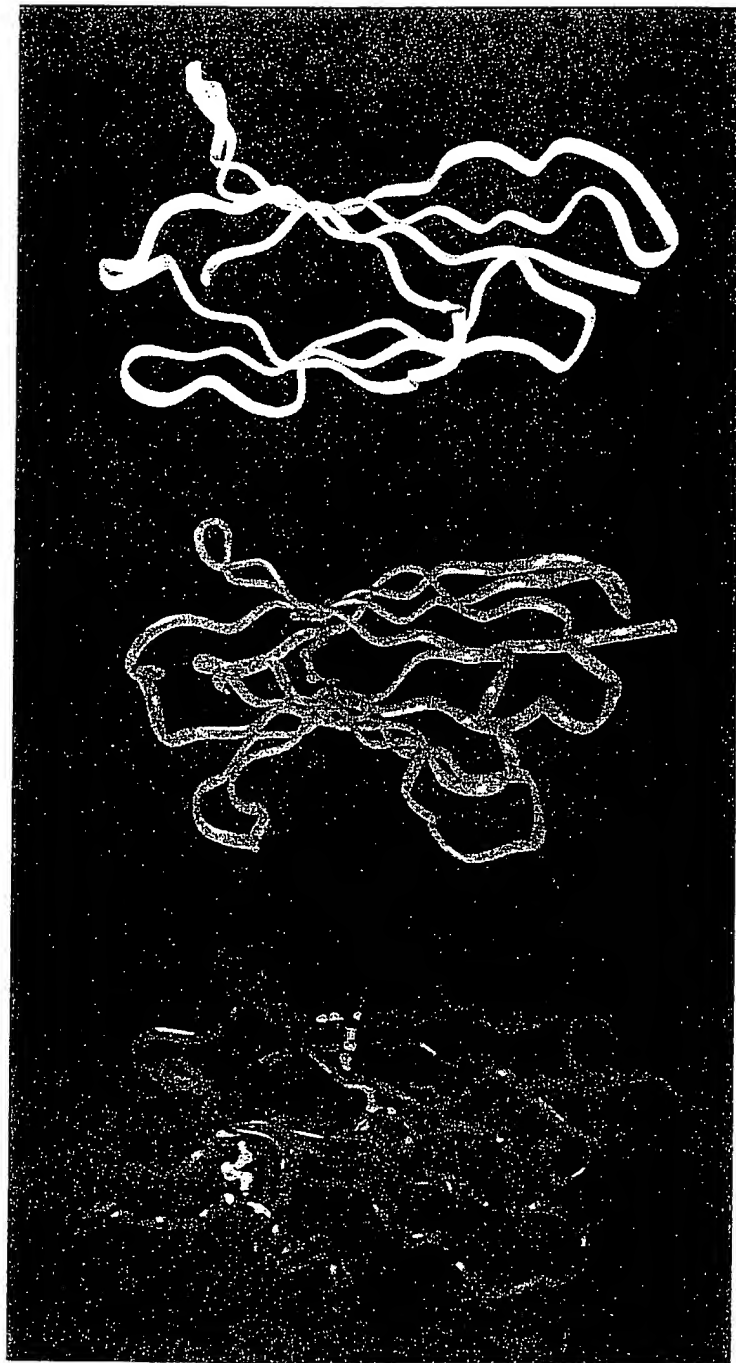


FIGURE 2

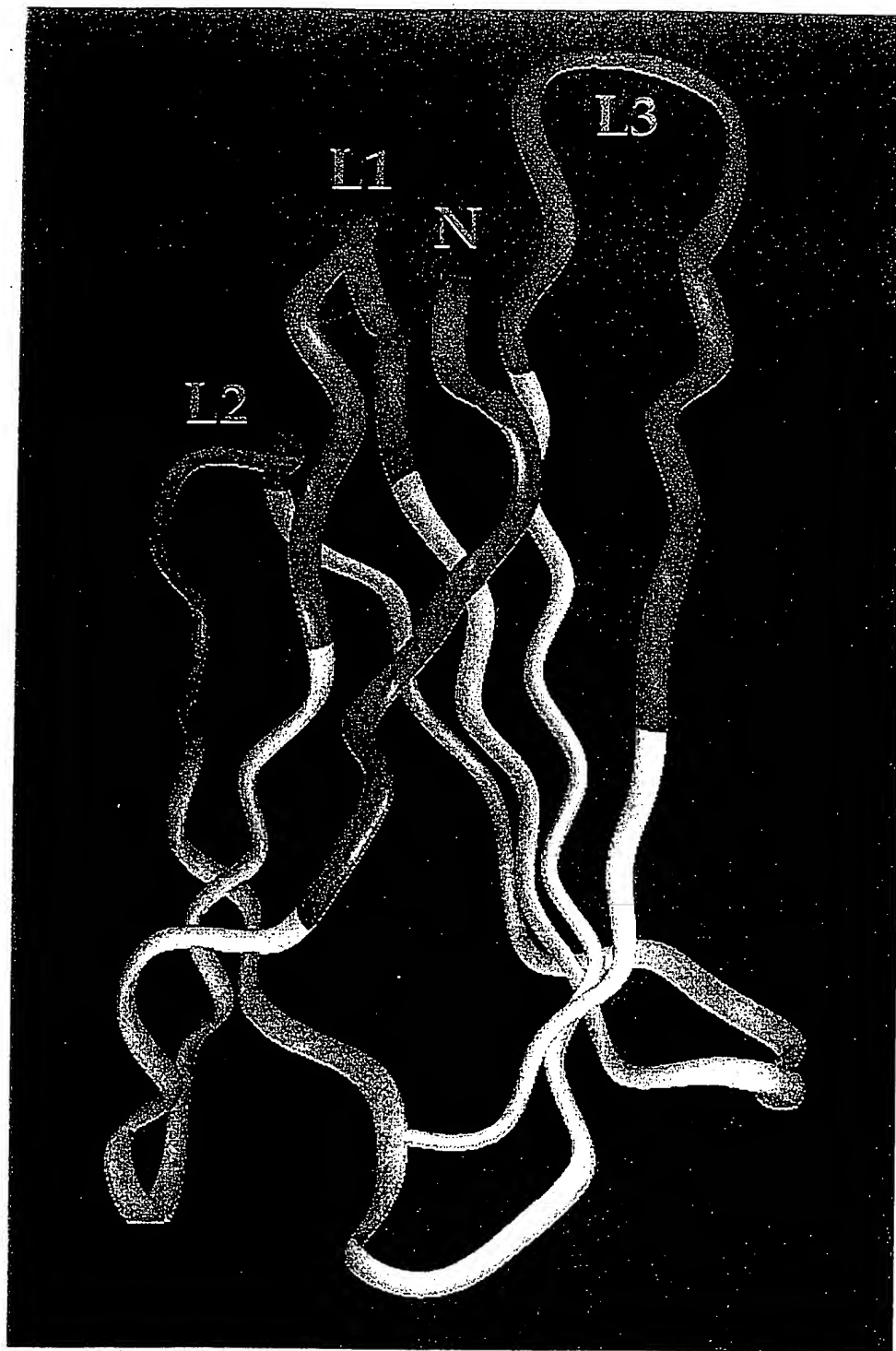


FIGURE 3

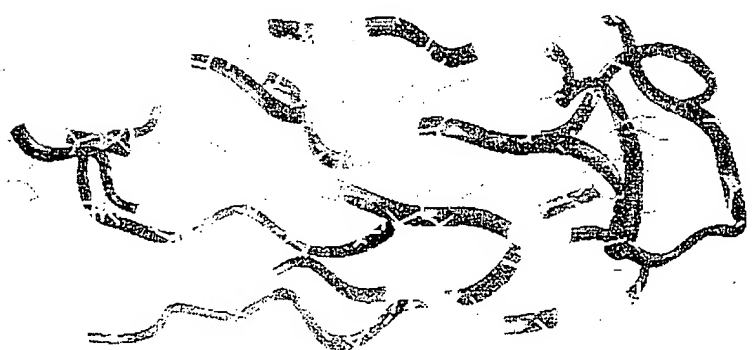
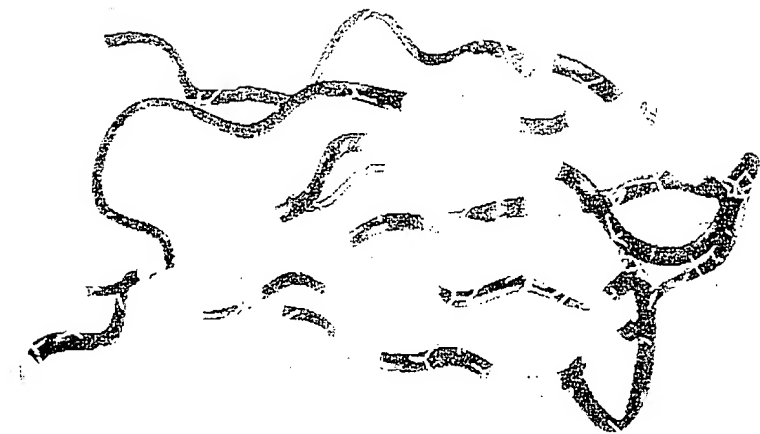


FIGURE 5

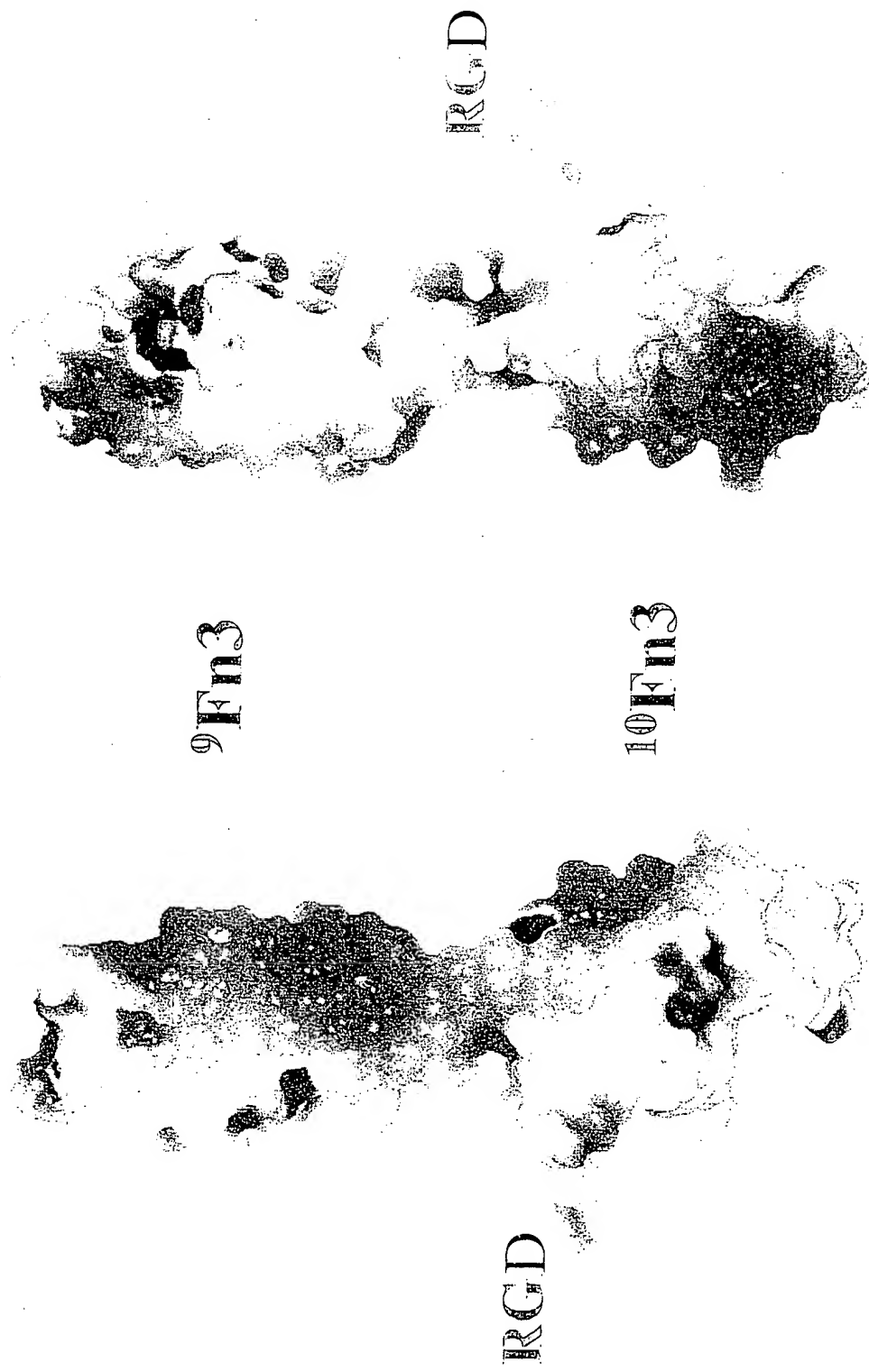


FIGURE 6



7E13

8E13

9E13

10E13

FIGURE 7

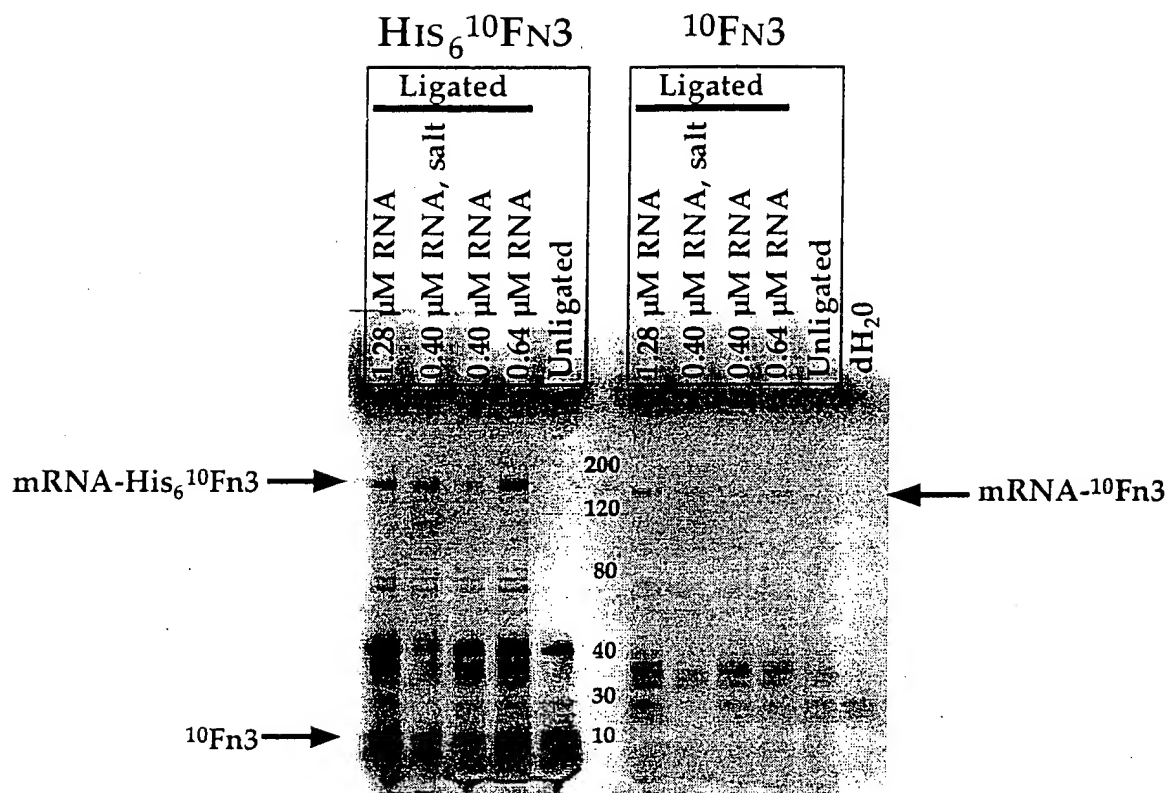


FIGURE 8

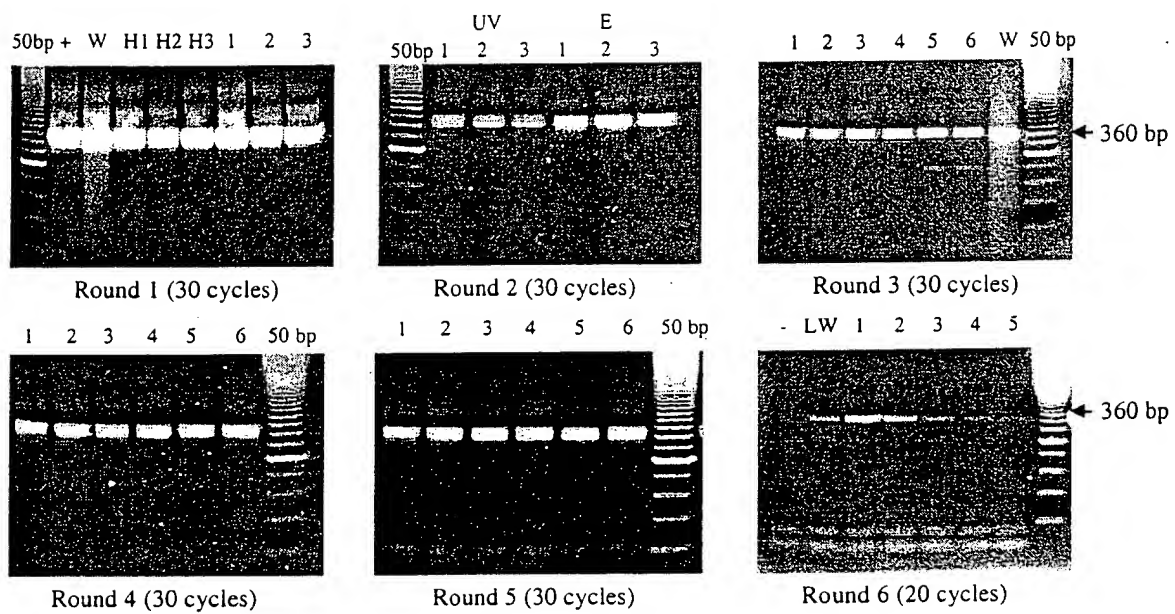


FIGURE 9

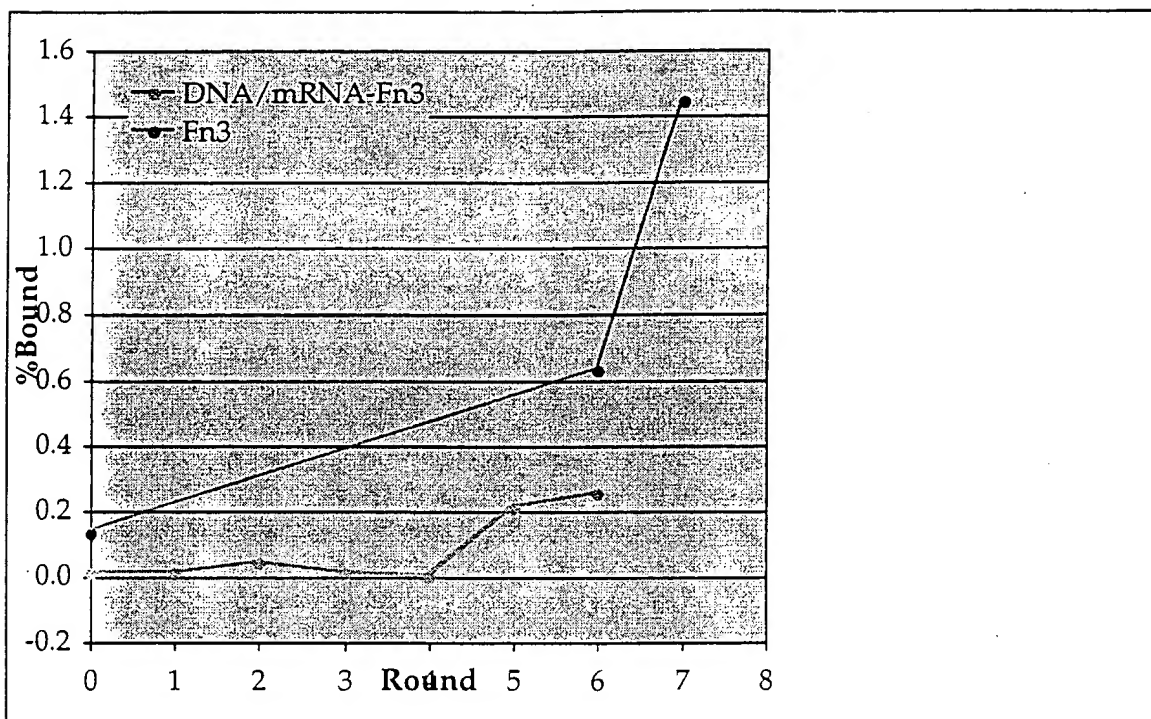
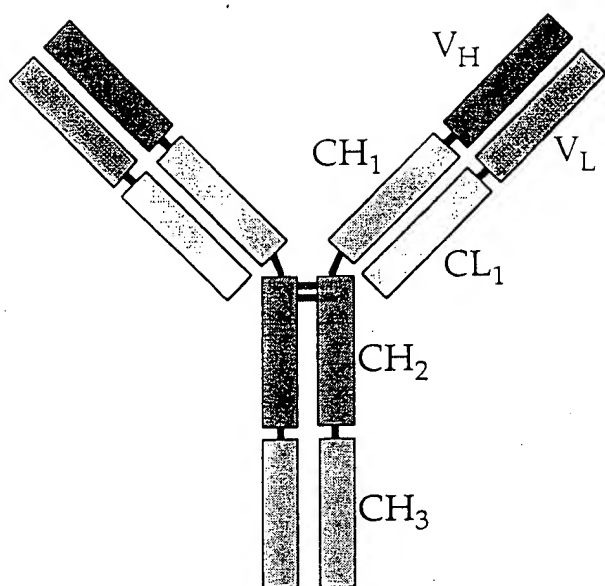


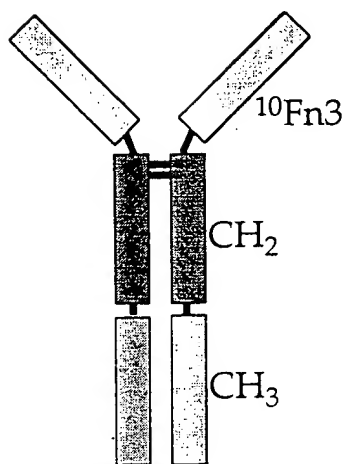
FIGURE 10



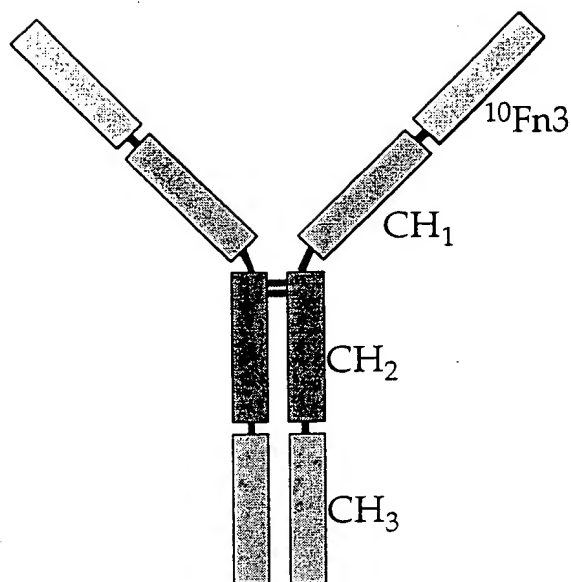
IgG



$^{10}\text{Fn3}$



$^{10}\text{Fn3-CH}_2\text{-CH}_3$



$^{10}\text{Fn3-CH}_1\text{-CH}_2\text{-CH}_3$

FIGURE 11

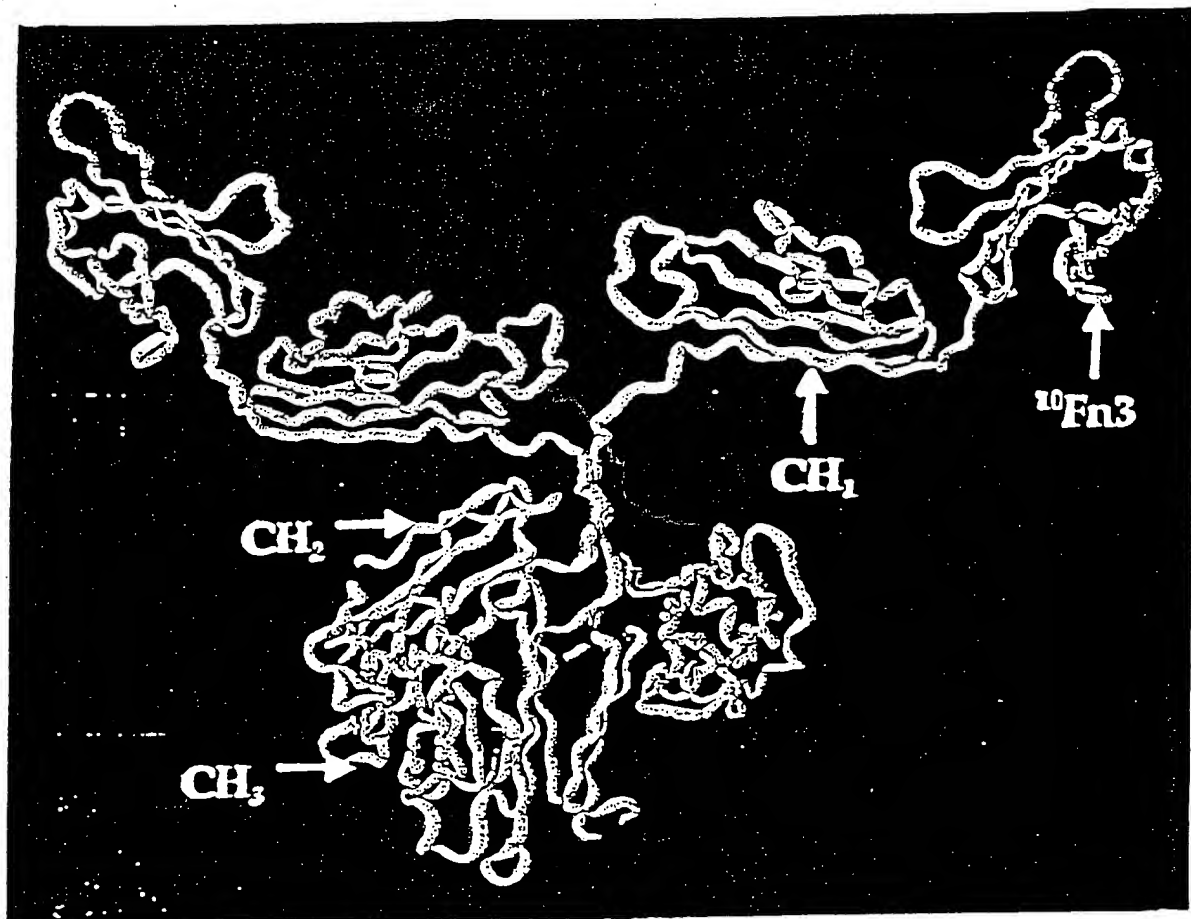


FIGURE 12

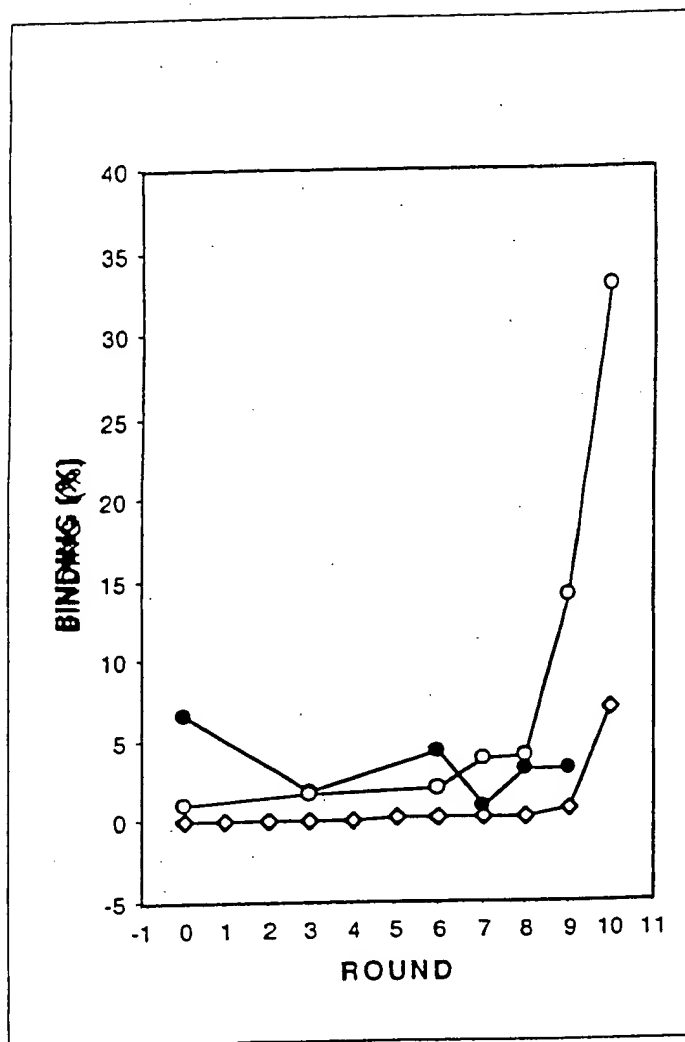


FIGURE 13

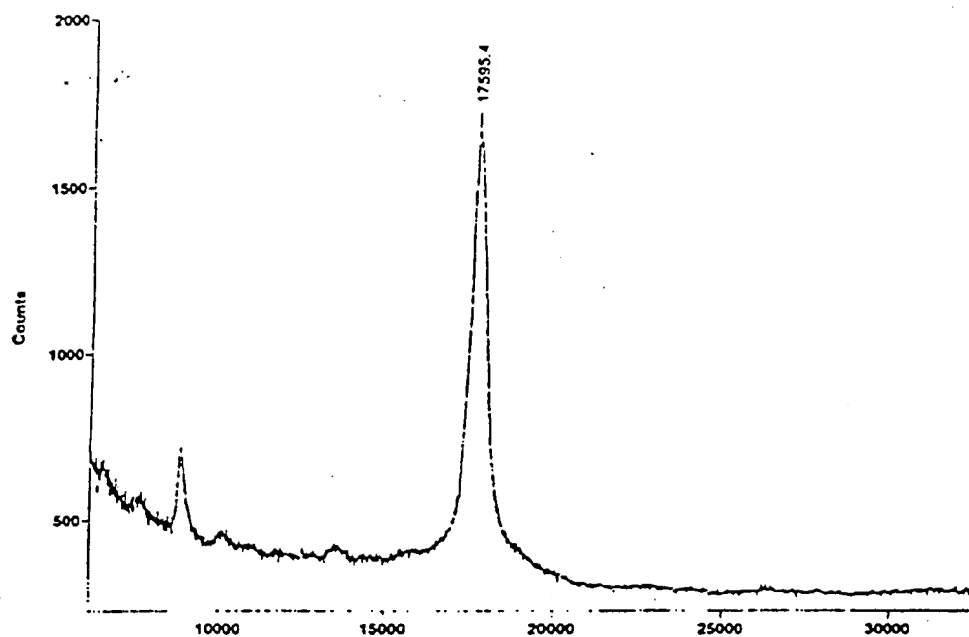


FIGURE 14

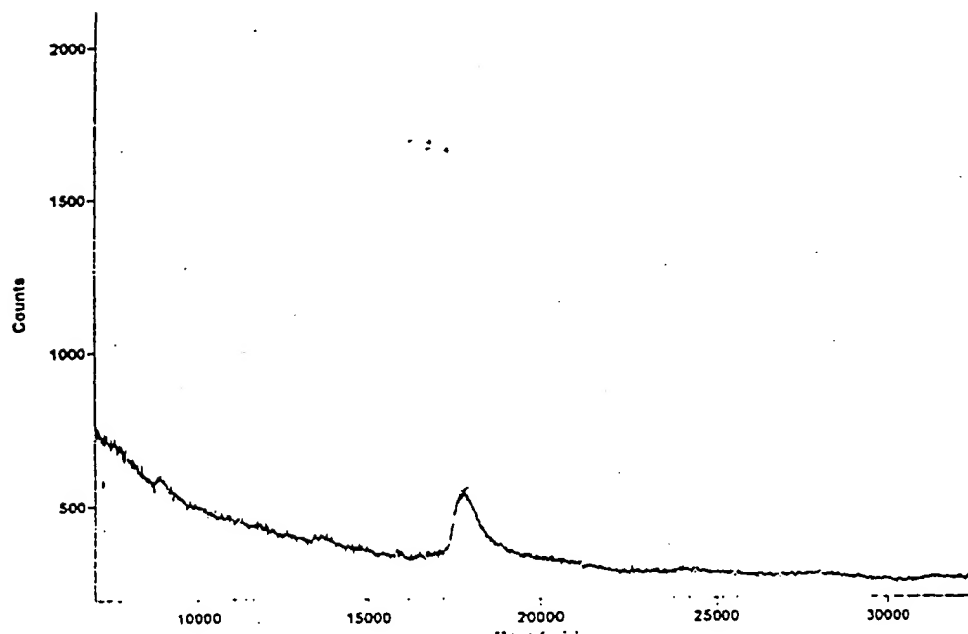


FIGURE 15

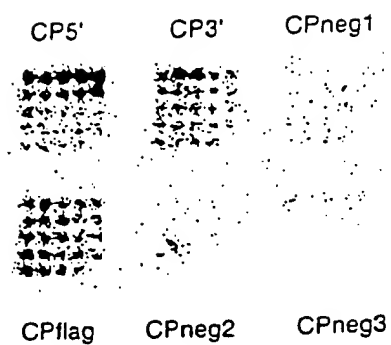


FIGURE 16

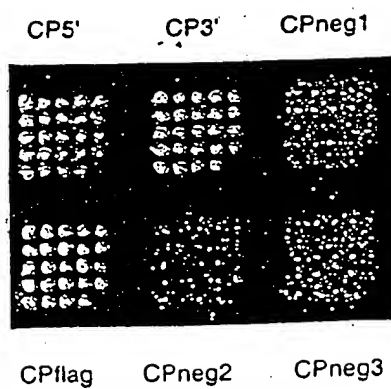


FIGURE 17

FIGURE 18

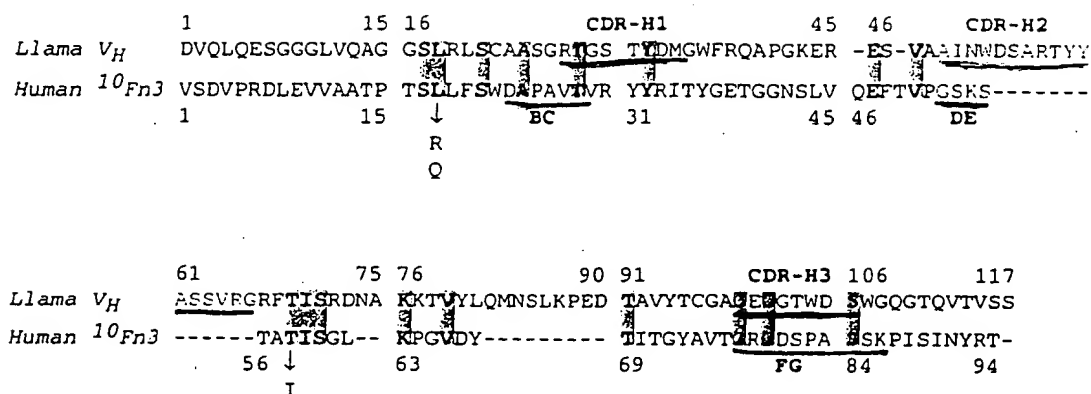
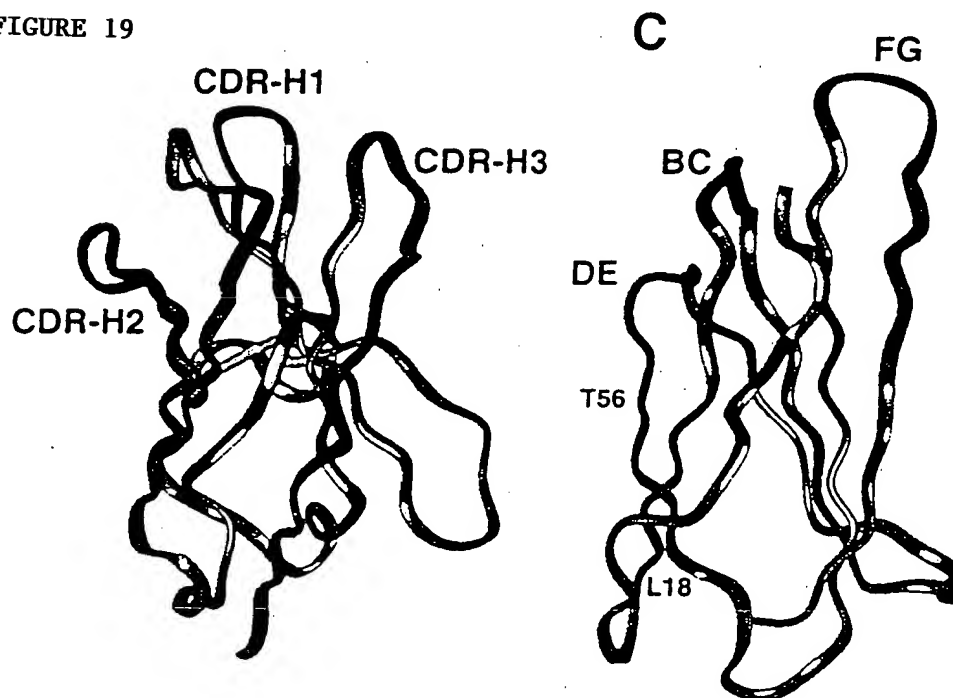


FIGURE 19



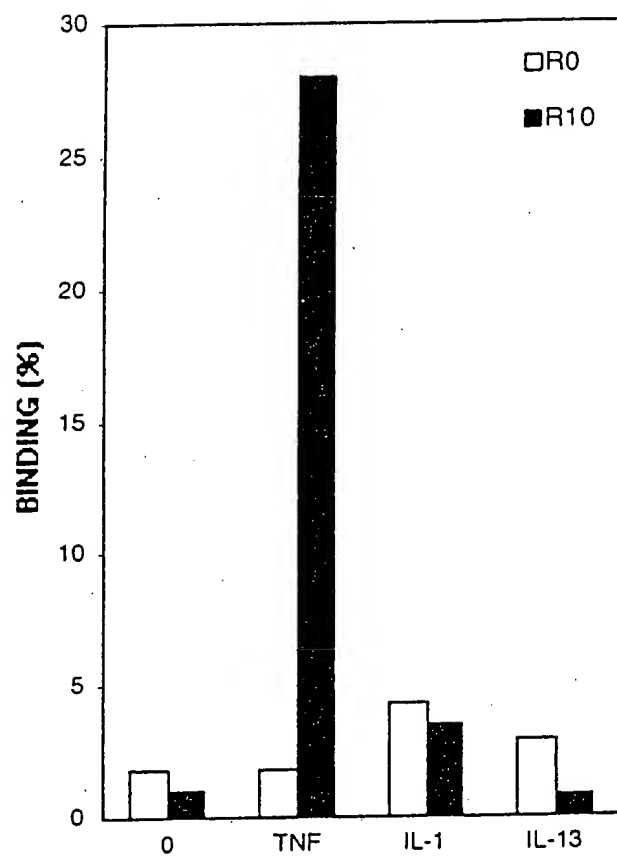
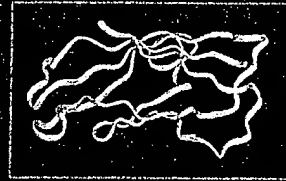
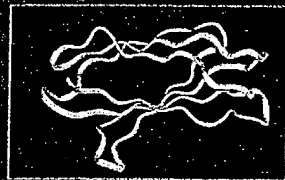
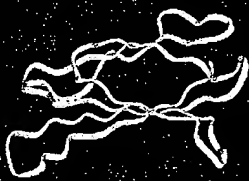
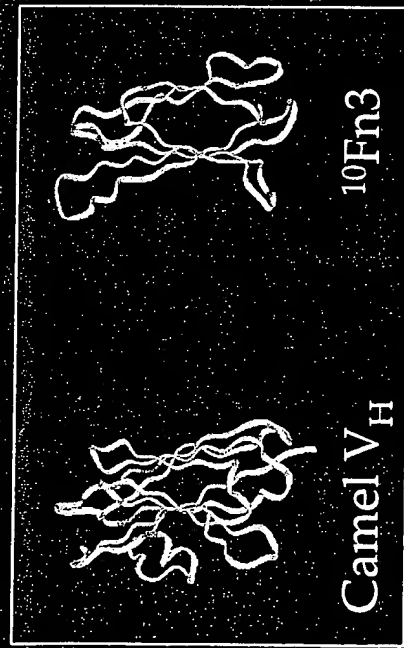


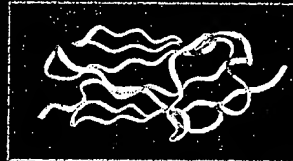
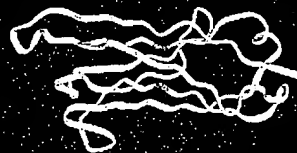
FIGURE 20

IgG-like Scaffolds for the Display of Three Loops

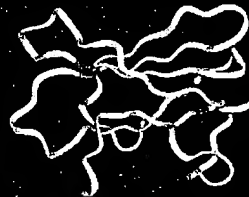


No S-S

No S-S



1 S-S

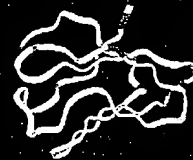


ICAM

Titin

GCSF-R

Cytokine Receptor



1 Cys



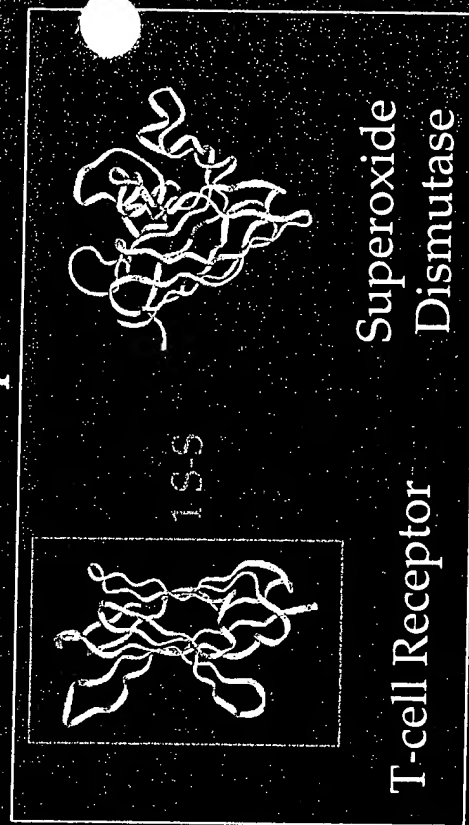
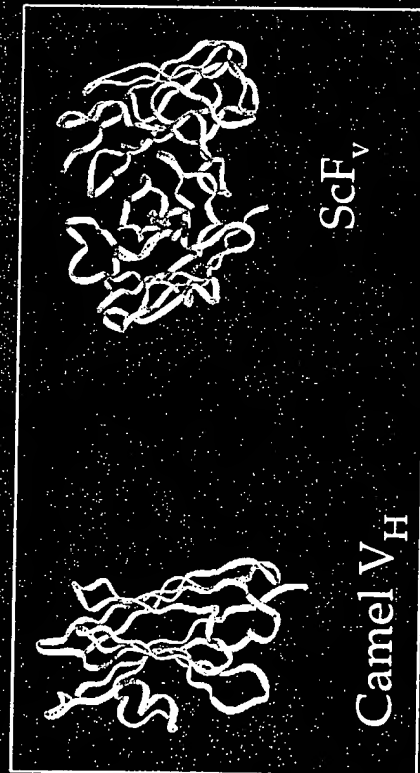
Glycosidase Inhibitor

E-Cadherin

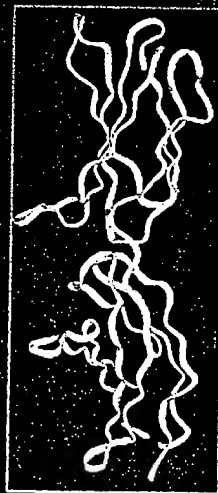
Antibiotic Chromoprotein

IgG-like Scaffolds for the Display of Four or Six Loops

4 Loops

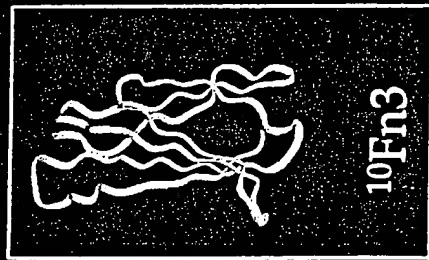


No S-S



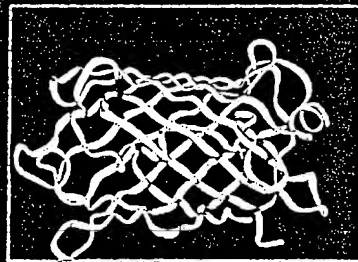
6 Loops

Scaffolds Unrelated to IgG



Cytochrome F

No S-S

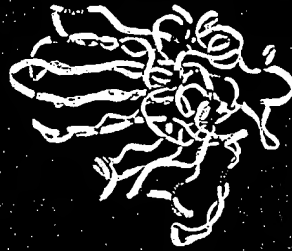


Green Fluorescent Protein

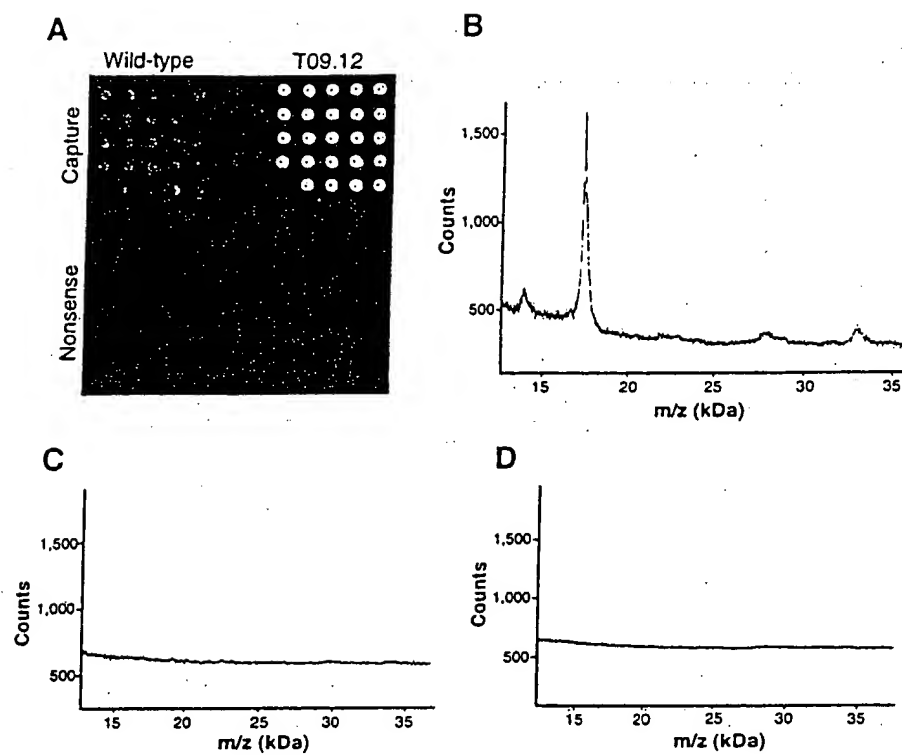
No S-S



GroEL



Thaumatin



FIGURES 24A - 24D

ROUND 9 (32)

		BC		DE		FG		SEQ ID						
WT		15	16	DAPAVTV3031	45	46	GSKS	60	61	74	75	GRGDS	PASSK	90
T09.08	VSDVPRDLEVVAAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94
T09.26	VSEIPRDLEVVAAATP	TSLLFSWDAPAVTVR	YRITYGETGNSLV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.20	VSDVPRDLEVVAAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.25	VSDVPRDLEVVAAATP	TGLLISWNKSRMTTR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.30	VSDVPRDLEVVAAATP	TSLLISWDS---SHR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.02	VSDVPRDLEVVAAATP	TSLLISWHNNHIDMR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.34	VSDVPRDLEVVAAATP	TSLLISWRTSPASPHG	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.03*	VSDVPRDLEVVAAAS	TSLLISWRTSPASPHG	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.13	VSDVPRDLEVVAAATP	TSLLISWRPNRSLR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.29	VSDVPRDLEVVAAATP	TCLLISWRPNRSLR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.01	VSDVPRDLEVVAAATP	TSLLISWDPNIRLRR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.14	VSDVPRDLEVVAAATP	TSLLISWFSRSLQDR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.24	VSDVPRDLEVVAAATP	TSLLISWYRHTYRDR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.19	VSDVPRDLEVVAAATP	TSLLISWYRHTYRDR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.31	VSDVPRDLEVVAAATP	TSQLISWPFPGWYPSR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.07	VSDVPRDLEVVAAATP	TSRLISWRPGRTYSR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.36	VSDVPRDLEVVAAATP	TSRLISWASPPMWR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.16	VSDVPRDLEVVAAATP	TSRLISWASPPMWR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.23	VSDVPRDLEVVAAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.21	VSDAPRDLEVVAAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.33*	VSDVPRDLDVAAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.10	VSDVPRDLEVVAAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.28	VSDVPRDLEVVAAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.15	VSDVPRDLEVVAAATP	TSRLISWNRSGLQSR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.09	VSDVPRDLEVVAAAT-	TSLLISWDYNRGTGR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.35	VSDVPRDLEVVAAATP	TSLLISWHYLRQRP	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.06	VSDVPRDLQIVAAATP	TSLLISWNRSGLQSR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.11	VSDVPRDLEVVAAATP	TSRLISWRPNTSNPPR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.12*	VSDVPRDLEVVAAATP	TSRLICWRPNTSNPPR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.17	VSDVPRDLEVVAAATP	TSRLISWRPNTSNPPR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.04	VSDVPRDLEVVAAATP	TSQLISWKTNTNPTAR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95
T09.05	VSDVPRDLEVVAAATP	TSRLISWTRHSPVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSK	PIS	INVRT	90	91	92	93	94	95

FIGURE 25 (Page 1)

ROUND 10 (29)

BC			DE			FG		
WT	15	16	DAPAVTV3031	45	46	GSKS	60	61
T10.37	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSK
T10.12	VSDVPRDLEVVAATP	TSLLIRERE----	YRITYGETGNSPV	QFTVPGSKSTATIS	GLEPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.21	VSDVPRDLEVVAATP	TSLLISRKDRVSSRR	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.40	VSDVPRDLEVVAATP	TSLLISWHMATPNTR	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.31a	VSDVPRDLEVVAATP	TSLLSSWYLCGNNR	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.41	VSDVPRDLEVVAATP	TSLLISWRTSPASPHG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.13	VSDVPRDLEVVAATP	TSLLISWNRMAHPHNR	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.03	VSDVPRDLEVVAATP	TSLLISWFPDNATPR	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.33	VSDVPRDLEVVAATP	TSLLISWMLLRDNR	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.27	VSDVPRDLEVVAATP	TSLLISWSPNDNAHR	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.05	VSDVPRDLEVVAATP	TSLLISWSPNDNAHR	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.01	VSDVPRDLEVVAATP	TSLLISWSPNDNAHR	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.34	VSDVPRDLEVVAATP	TSLLISWTRHSPVR	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.36	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.30	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.06	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.17	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.18	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.39	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.02	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.08	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.20	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.29	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.15	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.15	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.35	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.26	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
T10.14	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
S08.02	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI
S08.03	VSDVPRDLEVVAATP	TSRLISWNRSGLOSG	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	74	75	GRGDSPASSKPI

FIGURE 25 (Page 2)

ROUND 14 (22)

		BC		DE		FG					
WT		15	16	DAPAVTV3031	45	46	GSKS	60	61		
T14.25	VSDVPRDLEVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	YRITYGETGNSPV	QFTVPGSKSTATIS	GLKPGVDY-TITVYA	75	76GRGDSPASSK	90		
T14.03	VSDVPRDLEVAATP	TSLLISWDTHNAYNG	YRITYGETXGNSPV	REFTVPHPEVTATIS	GLKPGVDD-TITVYA	VTNNHMLPRIFGPIS				INVRT	33
T10.06	VSDVPRDLEVAATP	TSLLIXWTRTNANTR	YRITYGETGNSPV	QFTAPNNPPTATIG	GLKPGVDY-TITVYA	VTDPGSRHMLTKPIS				INHRT	96
T14.12	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTDKSDTYKYDDPIS				INVRT	47
T14.13	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASIAAIS	GLKPGVDY-TITVYA	VTDKSDTYKYDDPIS				INVRT	81
T14.17	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTDKSDTYKYDDPIS				INVRT	98
T14.05	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTDKSDTYKYDDPIS				INHRT	99
T14.14	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASMAATIS	GLKPGVDY-TITVYA	VTDKSDTYKYDDPIS				INVRT	101
T14.23	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTDKSDTYKYDDPIS				INVRT	102
T14.26	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASIAATIS	GLKPGVDY-TITVYA	VADKSDTYKYDDPIS				INVRT	103
T14.24	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTDKSDTYKYDDPIS				INVRT	104
T14.20	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTDKSDTYKYDDPIS				TNCR	105
T14.19	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTDKSDTYKYDDPIS				INVRT	106
T14.11	VSDVSRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTMP--RKYDKPIS				INVRT	107
T14.10	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWASIAATIS	GLKPGVDY-TITVYA	VTAQTGHHLHDKSIP				INVRT	108
T14.22	VSDVPRDLEVAATP	SSRLISWRPGRITYSR	YRITYGETGNSPV	QFTVPPWANTATIS	GLKPGVDY-TITVYA	VTFPPGYPLTEMPIS				INVRT	109
T14.21	VSDVPRDLEVAATP	SSRLISWRPGRITYSR	YRITYGETGNSPV	QFTVPPWANTATIS	GLKPGVDY-TITVYA	VTFTGYPLTEMPIS				INVRT	110
T14.01	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWANTATIS	GLKPGVDY-TITVYA	VTYTHSTPMQDEPIS				INVRT	111
T14.06	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWANTATIS	GLKPGVDY-TITVYA	VTTSECHKLSSTIS				INVRT	112
T14.08	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWANTATIS	GLKPGVDY-TITVYA	VASPDETSAYSEPIS				INVRT	113
T14.02	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWANTATIS	GLKPGVDY-TITVYA	VTDNPNNSAKAQHP--				INSRT	114
T14.15	VSDVPRDLEVAATP	TSRLISWNRSGLOSR	YRITYGETGNSPV	QFTVPPWANTATIS	GLKPGVDY-TITVYA	VTPTHMLKPKQSMPI				INVRT	116

FIGURE 25 (Page 3)

[illegible]

FIGURE 25. (Page 4)